

High Temperature Inconel Overbraided Ceramic Fiber Insulated Thermocouples XCIB SERIES



- ✓ High Temperature Ceramic Insulation with Inconel Overbraid
- ✓ Flexible, Abrasion Resistant
- ✓ Withstand Temperatures up to 1090°C (2000°F)
- ✓ Unexcelled Oven and Furnace Profiling
- ✓ Five Convenient Styles for Easy Application
- ✓ J, K, E or N Thermocouple Calibrations

Unique NEWPORT® family of high temperature types J, K, E or N thermocouples are double-protected with abrasion-resistant Inconel overbraid with high temperature ceramic fiber insulation. A temperature rating of 980°C (1800°F) continuous service and 1090°C (2000°F) short-term service makes these products ideal for many high temperature measurement applications. They are unexcelled for profiling ovens and furnaces. The 20-gage solid conductor thermocouple wires are insulated with braided Nextel® ceramic. Over the ceramic fiber is a rugged overbraid of Inconel 600® –a tough, high-temperature, high nickel content alloy. Five convenient styles are available in 3 ft. and 10 ft. lengths for high temperature measurement applications.

Specifications

Wire Gage: 20 gage solid—standard limits of error



Insulation: Nextel® ceramic fiber




Overbraiding & Fittings: Inconel 600®

Temperature: 980°C (1800°F) continuous, 1090°C (2000°F) short-term service, depending on thermocouple type.

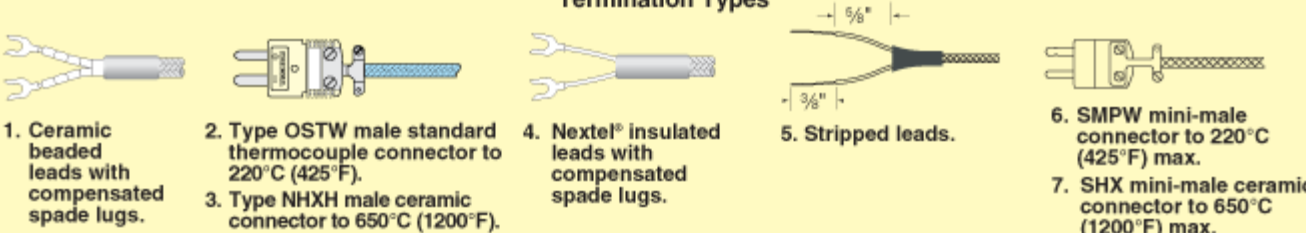
Termination: Ceramic beaded leads with compensated spade lugs, OSTW 220°C (425°F) male connector, or NHXH high temperature 650°C (1200°F) ceramic male connector

Probe Style

Style 1		A grounded junction thermocouple with the Inconel overbraid welded to form a smooth rounded tip for all general purpose applications.
Style 2		A general purpose, bead welded, exposed junction thermocouple.

Style 3		An exposed junction, bead welded junction thermocouple with an Inconel collar to clamp the probe to a surface, or to secure it into a hole or any fabrication.
Style 4		Grounded junction. It can be bolted to a surface, or the Inconel eye can hook the thermocouple to a conveyor flight. Ungrounded junction versions are available. Contact sales for more information.
Style 5		Has an Inconel air hood to protect the beaded wire exposed junction. This design can be clamped to a surface, hooked to a conveyor flight, or bolted to a surface by using the through hole at the open end of the hood.

Termination Types



1. Ceramic beaded leads with compensated spade lugs.
2. Type OSTW male standard thermocouple connector to 220°C (425°F).
3. Type NHXH male ceramic connector to 650°C (1200°F).
4. Nextel® insulated leads with compensated spade lugs.
5. Stripped leads.
6. SMPW mini-male connector to 220°C (425°F) max.
7. SHX mini-male ceramic connector to 650°C (1200°F) max.

Model Number	Probe Style	Termination Type
XCIB-(*)-1-1-(**)	1	1
XCIB-(*)-1-2-(**)		2
XCIB-(*)-1-3-(**)		3
XCIB-(*)-1-4-(**)		4
XCIB-(*)-2-1-(**)	2	1
XCIB-(*)-2-2-(**)		2
XCIB-(*)-2-3-(**)		3
XCIB-(*)-2-4-(**)		4
XCIB-(*)-3-1-(**)	3	1
XCIB-(*)-3-2-(**)		2
XCIB-(*)-3-3-(**)		3
XCIB-(*)-3-4-(**)		4
XCIB-(*)-4-1-(**)	4	1
XCIB-(*)-4-2-(**)		2
XCIB-(*)-4-3-(**)		3
XCIB-(*)-4-4-(**)		4
XCIB-(*)-5-1-(**)	5	1
XCIB-(*)-5-2-(**)		2
XCIB-(*)-5-3-(**)		3
XCIB-(*)-5-4-(**)		4

* Specify Thermocouple Type: J: Iron-Constantan, K: CHROME[®]GA[®]-ALOMEGA[®], E: CHROME[®]GA[®]-Constantan, N: OMEGALLOY[®]-NICROSIL-NISIL Use prefix of "CAL-" for assemblies to be supplied with calibration data at specified temperatures. Check Sales Dept. for pricing

** Specify length in feet. 3' or 10' standard

Note: Available with Silica insulation. Change "XCIB" in model number to "XSIB". No additional charge.

Product Selection (Specify Model Number, see variations below in partnumber builder table)

Part Number	Description	Qty.
XCIB-J-1-1-3	J Type Thermocouple, grounded welded thermocouple junction, ceramic beaded leads with spade lugs, 3' length	
XCIB-K-1-1-3	K Type Thermocouple, grounded welded thermocouple junction, ceramic beaded leads with spade lugs, 3' length	
XCIB-J-2-1-3	J Type Thermocouple, exposed thermocouple junction, ceramic beaded leads with spade lugs, 3' length	
XCIB-K-2-1-3	K Type Thermocouple, exposed thermocouple junction, ceramic beaded leads with spade lugs, 3' length	
XCIB-J-4-1-3	J Type Thermocouple, bolt-on thermocouple junction, ceramic beaded leads with spade lugs, 3' length	
XCIB-K-4-1-3	K Type Thermocouple, bolt-on thermocouple junction, ceramic beaded leads with spade lugs, 3' length	



Part Number Builder

(1) (2) (3) (4)

XCIB- J - 1 - 1 - 3

Option Descriptions

(1) Thermocouple Type

Select

- J for J Type Thermocouple
- K for K Type Thermocouple
- E for E Type Thermocouple
- N for N Type Thermocouple

(2) Probe Style

Select

- 1 for Grounded Welded Junction
- 2 for Exposed Junction
- 3 for Exposed Junction with Collar
- 4 for Bolt-on Junction
- 5 for Air Hood Junction

(3) Termination

Select

- 1 for Ceramic Beaded Leads with Spade Lugs

- 2 for OST Male ConnectoR
- 3 for NHXH Ceramic Connector
- 4 for Nextel Insulated Leads with Spade Lugs
- 5 for Stripped leads
- 6 for SMPW mini-male
- 7 for SHX mini-male ceramic

(4) Length

Select

3 for 3 Feet

10 for 10 Feet

CUSTOM for custom length in feet(whole numbers up to 50' max. For over 50' please consult sales)

NOTE: All combinations may not be valid, check spec sheet for valid part numbers.

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